

# **E1644-98 Standard Practice for Hot Plate Digestion of Dust Wipe Samples for the Determination of Lead**

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## **1. Scope**

1.1 This practice covers the acid digestion of settled dust samples (collected using wipe sampling practices) and associated quality control (QC) samples for the determination of lead using laboratory atomic spectrometry analysis techniques such as Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), and Graphite Furnace Atomic Absorption Spectrometry (GFAAS).

1.2 This practice is based on U.S. EPA SW846 Method 3050, NIOSH 7082 and NIOSH 7105.

1.3 This practice contains notes which are explanatory and not part of mandatory requirements of the standard.

**Adopted by:**

**Developed by ASTM Subcommittee:** [E06.23](#)

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### Subject Index

Digestion; Dust wipe samples; FAAS (flame atomic absorption spectrometry); GFAAS (graphite furnace atomic absorption spectrometry); Hot plate digestion; ICP-AES (inductively-coupled plasma atomic emission spectrometry); Lead; Lead screening test; Sample preparation; dust wipe samples-hot plate digestion, for determination of lead by; atomic spectrometry, practice;; Wipes; dust wipe samples-hot plate digestion, for determination of leadby; atomic spectrometry, practice

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